

SOCIALIST REPUBLIC OF ROMANIA NATIONAL COUNCIL FOR SCIENCE AND TECHNOLOGY STATE OFFICE FOR INVENTIONS AND TRADEMARKS	Group 4/82 Crt. No. 27318 (11) DESCRIPTION OF INVENTION 76074 <hr/> (61) Complementary to the invention no: (21) File no.: 97287 (22) Filing date: 17.04.1979 (30) Conventional priority: (32) Date: (33) Country: (31) Certificate no: (45) Publication date : 30.01.1982 (51) Int CP: A 61K 9/48	
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(54) Energizing Drug

The present invention refers to a drug which, upon establishing the doses, has in view the researches of bio-availability and which ensures the energetic substrate view the researches of bio-availability and required during the effort and eliminates the the synergy effects of the components (RO feeling of tiredness. patents no. 62173, 74763).

There are known energizing drugs, There is also known an absorbable and such as an effort-sustaining product which assimilable mineralizing compound contains vitamin C, glucose and necessary for compensating the metabolic mesoinositol (RO patent no.68422). Another disturbances and loss of minerals which product comprises a series of vitamins and take place during the sports effort or other

categories of efforts, during which massive elimination of salts occur by sweating. This product comprises an association between potassium and magnesium aspartates, glycol and arginine (Ro patent no. 73760).

Another product proposed for the drugs sustaining long lasting (aerobe) efforts comprises potassium and magnesium aspartates, glycol, glutamic acid, lysine, tyrosine and caffeine (RO patent no. 73698).

According to the invention, the drug enlarges the range of the effort-sustaining drugs by the fact that, in order to obtain an energetic substrate necessary during the effort, and in order to eliminate the feeling of tiredness, it contains: 1.43 ... 1.82 % potassium aspartate; 1.43 ... 1.82 % magnesium aspartate; 1.43 ... 1.82 % lysine; 0.71 ... 0.91 % arginine; 0.71 ... 0.91 % tyrosine; 1.43 ... 1.82 % glycol; 0.71 ... 0.91 % vitamin B₆; 7.14 ... 9.99% glucose, incorporated in a mass to be poured in tablet form; said mass comprising chocolate, powder milk, vanillin and cacao butyr.

There are given hereinafter 4 embodiments of the invention.

Example 1. The energizing drug has the following composition:

- potassium aspartate	0.100 g;
- magnesium aspartate ..	0.100 g;
- lysine	0.100 g;
- arginine	0.050 g;
- tyrosine	0.050 g;
- glycol	0.100 g;
- vitamin B ₆	0.050 g;
- powder milk	0.250 g;
- glucose	0.500 g;
- vanillin	0.002 g;
- butyr cacao	1.400g;
- sugar	0.298 g;
- chocolate	2.798 g;

The active substances are passed through the sieve. After having been passed through the sieve, they are homogenized. The chocolate is melted on the water bath at a temperature of 40 ... 45°C. After melting, the butyr is incorporated into the chocolate mass at a temperature of 32 ... 35 °C and it is well homogenized. The active substances are incorporated into that mass and after

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perfect homogenizing, the mass is poured which decreases the blood ammonia concentration in the acute liver into the forms.

The product sums up the effects of insufficiencies with hyper-ammonemia. glycol as activator of the muscular metabolism with the effects of the potassium and magnesium aspartates which have a complex activity, stimulating the erythropoiesis. Finally, the glucose and proteinogenesis, by protecting the chocolate from substances energogene by enzymatic equipment, and favouring the excellence constitute the energetic substrate for all tissues.

The tyrosine is an amino acid precursor of the thyroid hormones of the following composition:

chatecholamines, highly important hormonal factors within the processes of forming and releasing the energy necessary for the effort.

The lysine is an amino acid which, according to the specialized researches, proved to improve the adaptation during the periods of intense training. The lysine is also necessary for preventing the effects of excessive catabolism of proteins, characteristic to long standing sustained efforts.

The arginine is an amino acid with fundamental role in the urea cycle and

Example 2. The energizing drug has the following composition:

- potassium aspartate	0.100 g;
- magnesium aspartate	0.100 g;
- lysine	0.100 g;
- arginine	0.050 g;
- tyrosine	0.050 g;
- glycol	0.100 g;
- vitamin B ₆	0.050 g;
- glucose	0.500 g;
- powder milk	0.250 g;
- vanillin	0.002 g;
- butyr	1.400 g;
- chocolate	2.798 g.

The preparation process is the same as in example 1.

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Example 4. The energizing drug has

Claim

the following composition:

Energizing drug for the effort-

- potassium aspartate....	0.100 g;	sustaining medication or recovery
- magnesium aspartate ...	0.100 g;	medication, characterized in that comprises
- lysine	0.100 g;	1.43 ... 1.82 % potassium aspartate; 1.43 ...
- arginine	0.050 g;	1.82 % magnesium aspartate; 1.43 ... 1.82 %
- tyrosine	0.050 g;	lysine; 0.71 ... 0.91 % arginine; 0.71 ... 0.91
- glyocol	0.100 g;	% tyrosine; 1.43 ... 1.82 % glyocol; 0.71 ...
- vitamin B ₆	0.050 g;	0.91 % vitamin B ₆ ; 7.14 ... 9.99% glucose,
- powder milk	0.250 g;	incorporated into a mass poured into
- glucose	0.500 g;	tablets, consisting of chocolate, powder milk,
- vanillin	0.002 g;	vanillin and butyr cacao.
- butyr	1.800 g;	
- chocolate	2.398 g.	

The preparation process is the same as in example 1.

The product obtained according to the invention has the following advantages:

- by combining the effects of the components, ensures the energetic substrate necessary in the sports efforts or other kinds of efforts;

- by the antitoxic, stimulating effects during the efforts, it ensures a potential reserve of energy releasable during the effort and eliminates the feeling of tiredness